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Applicant: Frank Hartung, et al.

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For: METHOD AND DEVICES FOR THE CONTROL OF THE USAGE OF CONTENT

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Date: April 27, 2006

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Dear Sir:

PRELIMINARY AMENDMENT

Please amend the application as follows prior to the substantive examination thereof:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks begin on page 11 of this paper.

AMENDMENTS TO THE SPECIFICATION

Please replace the abstract from the International Application with the new abstract that is attached hereto on a separate sheet.

~~A method and devices for a control of usage of content is disclosed. The method comprises the steps of obtaining the content~~ Content is obtained ~~at a user device (D1), defining usage rights at the user device (D1), the wherein usage rights are defined specifying one or more usage restrictions and/or one or more usage permissions of the content at a recipient device. (D2), generating at the user device (D1) Integrity integrity protection information is generated for the defined usage rights, encrypting the content is encrypted with a content encryption key, encrypting the content encryption key which is then encrypted with a key encryption key associated with the recipient device (D2) and/or an operator of the recipient device, (D2), The encrypted content, communicating the encrypted content, the defined usage rights, the encrypted content encryption key, and the integrity protection information are sent to the recipient device to verify (D2), verifying at the recipient device (D2) the integrity of the defined usage rights based on the integrity protection information, decrypting at the recipient device (D2) the encrypted content encryption key with a decryption key corresponding to the key encryption key, decrypting the encrypted content with the content encryption key in a secure environment (SE2) of the recipient device (D2), applying the defined usage rights to the content in the secure environment (SE2), and using the content at the recipient device (D2) according to the applied usage rights.~~

Fig. 4

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method ~~Method~~ for control of usage of content, wherein protected content exists being usage restricted by one or more first usage rights specifying one or more usage restrictions and/or one or more usage permissions of the protected content at a user device (D1), the method comprising the steps of

- obtaining the content at the user device (D1) from the protected content in accordance with the one or more first usage rights by decrypting the protected content by a first content encryption key in a first secure environment (SE1) of the user device (D1) and by accessing the decrypted content in the first secure environment (SE1),
- defining at least one usage right at the user device (D1), the at least one defined usage right specifying one or more usage restrictions and/or one or more usage permissions of the content at a recipient device (D2) and the at least one defined usage right comprising a temporal restriction,
- verifying that the at least one defined usage right is a subset of the one or more first usage rights,
- generating at the user device (D1) integrity protection information for the at least one defined usage right,
- encrypting the content with a content encryption key,
- encrypting the content encryption key with a key encryption key associated with the recipient device (D2) and/or an operator of the recipient device (D2),
- communicating the encrypted content, the at least one defined usage right, the encrypted content encryption key, and the integrity protection information to the recipient device (D2),

- restricting the one or more first usage rights in consequence of the definition and/or the communication of the at least one defined usage right to the recipient device (D2),
- verifying at the recipient device (D2) the integrity of the at least one defined usage right based on the integrity protection information,
- decrypting at the recipient device (D2) the encrypted content encryption key with a decryption key corresponding to the key encryption key,
- decrypting the encrypted content with the content encryption key in a secure environment (SE2) of the recipient device (D2),
- applying the at least one defined usage right to the content in the secure environment (SE2), and
- using the content at the recipient device (D2) according to the applied at least one usage right,
- abolishing the restriction of the one or more first usage rights when the temporal restriction expires.

2. (Currently Amended) The method according to claim 1, the method further comprising the steps of

- restricting or blocking or deleting the at least one defined usage right at the recipient device (D2) before the expiry of the temporal restriction,
- communicating an indication of the restricting or blocking or deleting to the user device (D4).

3. (Currently Amended) The method according to claim 2, further comprising the step of generating by the recipient device (D2) at least one received usage right that is a subset of the at least one defined usage right for the indication.

4. (Currently Amended) The method according to claim 3, further comprising the steps of

- applying the at least one received usage right at the user device (D4) until the expiry of the temporal restriction.

5. (Currently Amended) The method according to claim 3, further comprising the steps of

- recognizing by the user device (D1) that the at least one received usage right relates to the at least one defined usage right and
- using the content at the user device (D1) according to the at least one first usage right even within the time upon the expiration of the temporal restriction.

6. (Currently Amended) The method according to claim 1 ~~any of the preceding claims~~, wherein the step of communicating the at least one defined usage right to the recipient device (D2) is executed by

- communicating the at least one defined usage right from the user device (D1) to a rights server (DS),
- associating by the rights server (DS) the at least one defined usage right with authorization information indicating a rights issuer authorization for the at least one defined usage right to the recipient device (D2),
- communicating the at least one defined usage right and the authorization information from the rights server (DS) to the recipient device (D2),

and the recipient device (D2) verifies the rights issuer authorization based on the received authorization information.

7. (Currently Amended) The method according to claim 1 ~~any of the preceding claims~~ further comprising the step of communicating to a charging server an indication about the communication of the at least one defined usage right.

8. (Currently Amended) The method according to claim 1 ~~any of the preceding claim~~, wherein an input unit of the user device (D1) receives at least one instruction from a user for defining the at least one usage right.

9. (Currently Amended) The method according to claim 1 ~~any of the preceding claims~~ further comprising the step of defining at least one further usage right for at least one further recipient device for controlling the usage of the content at the at least one further device.

10. (Currently Amended) A user device (D1) for controlling a usage of content at a recipient device (D2), the user device (D1) comprising

at least a transmission unit and a processing unit, wherein protected content exists being usage restricted by one or more first usage rights specifying one or more usage restrictions and/or one or more usage permissions of the protected content at the user device (D1), and

the processing unit [[is]] being adapted to obtain the content from the protected content in accordance with the one or more first usage rights by decrypting the protected content with a first content encryption key in a first secure environment (SE1) of the user device (D1) and by accessing the decrypted content in the first secure environment (SE1), to define at least one usage right specifying one or more usage restrictions and/or one or more usage permissions of the content at the recipient device (D2), the at least one defined usage right comprising a temporal restriction, to verify that the at least one defined usage right is a subset of the one or more first usage rights, to generate integrity protection information for the at least one defined usage right, to encrypt the content with a content encryption key, to encrypt the content encryption key with a key encryption key associated with the recipient device (D2) and/or an operator of the recipient device (D2), the transmission unit [[is]] being adapted to send the encrypted content, the at least one defined usage right, the encrypted content encryption key, and the integrity protection information to the recipient device (D2), and the processing unit [[is]] being adapted to restrict the one or more first usage rights in consequence of the definition and/or the communication of the at least one defined usage right to the recipient device (D2) and to abolish the restriction of the one or more first usage rights the when temporal restriction expires.

11. (Currently Amended) The user device according to claim 9, ~~wherein~~ the user device ~~[[is]]~~ being adapted to load the protected content via a receiving unit and to store the protected content at a storage and/or to store pre-installed protected content at the storage.

12. (Currently Amended) The user device according to claim 1 ~~or 10~~, further comprising a receiving unit and the receiving unit is adapted to receive an indication of a restricting or a blocking or a deleting of the at least one defined usage rights at the recipient device ~~(D2)~~ before the expiry of the temporal restriction.

13. (Previously Presented) The user device according to claim 12, wherein the indication comprises at least one received usage right that is a subset of the at least one defined usage right.

14. (Previously Presented) The user device according to claim 13, wherein the processing unit is adapted to apply the at least one received usage right until the expiry of the temporal restriction.

15. (Currently Amended) The user device according to claim 13, ~~wherein~~ the user device ~~[[is]]~~ being adapted to recognize that the at least one received usage right relates to the at least one defined usage right and to use the content according to the at least one first usage right even within the time upon the expiration of the temporal restriction.

16. (Currently Amended) The user device according to claim 10 ~~any of the claims 9 to 13~~, wherein the processing unit is adapted to generate an instruction for a rights server ~~(DS)~~ to associate the at least one defined usage right with authorization information indicating a rights issuer authorization for the at least one defined usage right to the recipient device ~~(D2)~~ and to communicate the at least one defined usage right and the authorization information to the recipient device ~~(D2)~~.

and the transmission unit is adapted send the instruction and the at least one defined usage right to the rights server (~~D5~~).

17. (Currently Amended) The user device according to claim 10 ~~any the claims 9 to 14~~, wherein the transmission unit is adapted to send to a charging server an indication about the communication of the at least one defined usage right to the recipient device (~~D2~~).

18. (Currently Amended) The user device according to claim 10 ~~any of claims 9 to 15~~, the user device (~~D4~~) further comprising an input unit which is adapted to receive at least one instruction from a user and the processing unit is adapted to define the at least one usage right based on the at least one instruction from the user.

19. (Currently Amended) The user device according to claim 10 ~~any of the claims 9 to 16~~, wherein the processing unit is adapted to define at least one further usage right for at least one further recipient device for controlling the usage of the content at the at least one further recipient device.

20. (Currently Amended) A recipient device (~~D2~~) for a controlled usage of content, the recipient device (~~D2~~) comprising at least a receiving unit and processing unit, wherein the receiving unit is adapted to receive the content being encrypted by a content encryption key, at least one defined usage right specifying one or more usage restrictions and/or usage permissions of the content and the at least one defined usage right comprising a temporal restriction, a content encryption key being encrypted by a key encryption key associated with the recipient device (~~D2~~) and/or an operator of the recipient device (~~D2~~), and integrity protection information for the at least one defined usage right, the processing unit is adapted to verify the integrity of the at least one usage right based on the integrity protection information, to decrypt the encrypted content encryption key with a decryption key corresponding to the key encryption key, to decrypt the encrypted content with the

content encryption key in a secure environment (~~SE2~~), to apply the at least one defined usage right to the content in the secure environment (~~SE2~~), and to use the content according to the applied at least one defined usage right.

21. (Currently Amended) The recipient device according to claim 20 ~~[[18]]~~, wherein the processing unit is adapted to generate an alert if the integrity of the at least one defined usage right is violated and to initiate an indication of the alert at an output unit.

22. (Currently Amended) The recipient device according to claim 20 ~~48~~ ~~or 49~~ further comprising a transmission unit and the processing unit is adapted to restrict or block or delete the at least one defined usage right before the temporal restriction expires and to generate an indication of the restricting or the blocking or the deleting, and the transmission unit is adapted to send the indication to the user device (~~D4~~).

23. (Previously Presented) The recipient device according to claim 22, wherein the processing unit is adapted to generate at least one received usage right that is a subset of the at least one defined usage right for the indication.


24. (Currently Amended) The recipient device according to claim 20 ~~any of the claims 20 to 23~~, wherein the receiving unit is adapted to receive the at least one defined usage right and associated authorization information indicating a rights issuer authorization from a rights server (~~DS~~) and the processing unit is adapted to verify the rights issuer authorization based on the received authorization information.

25. -28 (Canceled)

REMARKS

Claims 1-24 remain in this application. Applicant respectfully submits no new matter has been added. Favorable consideration of the pending claims is respectfully requested.

Respectfully submitted,



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